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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

07/12/2004

Pollock Vande Sande & Priddy PO Box 19088 Washington, DC 20036-3425

EXAMI	NER	
ALAVI,	AMIR	
ART UNIT	PAPER NUMBER	
2621	<i>(</i> 1)	
DATE MAILED: 07/12/2004		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/673.503	10/17/2000	Tadahiro Ohmi	1776/00053	6775	

TITLE OF INVENTION: DATA COMPRESSING DEVICE AND METHOD, DATA EXPANDING DEVICE AND METHOD, DATA COMPRESSING/EXPANDING SYSTEM AND METHOD, CODE BOOK MAKING METHOD., AND VECTOR QUANTIZING DEVICE AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	10/12/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 7590 07/12/2004 Pollock Vande Sande & Priddy Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below. PO Box 19088 Washington, DC 20036-3425 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/673,503 10/17/2000 Tadahiro Ohmi 1776/00053 TITLE OF INVENTION: DATA COMPRESSING DEVICE AND METHOD, DATA EXPANDING DEVICE AND METHOD, DATA COMPRESSING/EXPANDING SYSTEM AND METHOD, CODE BOOK MAKING METHOD., AND VECTOR QUANTIZING DEVICE AND METHOD APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE YES \$665 nonprovisional \$665 10/12/2004 **EXAMINER** ART UNIT CLASS-SUBCLASS ALAVI, AMIR 2621 382-253000 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); individual corporation or other private group entity government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee A check in the amount of the fee(s) is enclosed. ☐ Publication Fee (No small entity discount permitted) ☐ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form) 5. Change in Entity Status (from status indicated above) ☐ b. Applicant is not claiming SMALL ENTITY status. See, e.g., 37 CFR 1.27(g)(2). ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. (Authorized Signature) This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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09/673,503	10/17/2000	Tadahiro Ohmi	1776/00053	6775
7:	590 07/12/2004		EXAM	INER
	Vande Sande & Priddy  ALAVI, AMIR		AMIR	
PO Box 19088 Washington, DC 2	0036-3425		ART UNIT	PAPER NUMBER
_			2621	
			DATE MAILED: 07/12/2004	1

## Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
Notice of Allowability	09/673,503 Examiner	OHMI ET AL. Art Unit	
•			
	Amir Alavi	2621	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTOI NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEM of the Office or upon petition by the applicant. See 37 CFR	S IS (OR REMAINS) CLOSED in 85) or other appropriate common NT RIGHTS. This application is s	nthis application. If not included unication will be mailed in due cour	se. THIS
<b>1</b> . $igotimes$ <b>This</b> communication is responsive to <u>The response re</u>	ceived 05 April 2004.		
2. $igotimes$ The allowed claim(s) is/are <u>2-8,34-40,44-49,60-62,65</u> ,	68 and 71 (now renumbered as	<u>1-26)</u> .	
3. 🔀 The drawings filed on <u>17 October 2000</u> are accepted	by the Examiner.		
<ol> <li>Acknowledgment is made of a claim for foreign prior</li> <li>a)</li></ol>	ity under 35 U.S.C. § 119(a)-(d)	or (f).	
1.   Certified copies of the priority documents	have been received.		
2. Certified copies of the priority documents	have been received in Application	n No	
3.  Copies of the certified copies of the priorit	ty documents have been received	in this national stage application t	from the
International Bureau (PCT Rule 17.2(a)).	•		
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DANGED BY NOTE OF THE THREE HONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	ments
5. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which			CE OF
6. CORRECTED DRAWINGS ( as "replacement sheets")	) must be submitted.		
(a) I including changes required by the Notice of Drafts	sperson's Patent Drawing Review	v ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _	·		
(b) ☐ including changes required by the attached Exam Paper No./Mail Date	iner's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 C each sheet. Replacement sheet(s) should be labeled as such			k) of
7. DEPOSIT OF and/or INFORMATION about the cattached Examiner's comment regarding REQUIREM			the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application (PTO-15:	2)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-9		ımmary (PTO-413), Mail Data 8	
0 □ Information Bit I Otatamant (BTO 4440 - BTO		Mail Date <u>8</u> . Amendment/Comment	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO)         Paper No./Mail Date</li> <li>Examiner's Comment Regarding Requirement for Depo</li> </ol>	osit 8. 🛛 Examiner's	Statement of Reasons for Allowan	ce

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**Election/Restrictions** 

➤ Applicant's election of Group III in the reply filed on 05 April 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

# **Priority**

➤ Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

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### **EXAMINER'S AMENDMENT**

- ➤ An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- > The application has been amended as follows: Claims 1,9-33,41-43,50-59,63-64,66-67,69-70,72-105, are cancelled.
- > Claim 8, line 2, claim 66 is changed to claim 6.
- Claim 71, line 5, délete, "56 or".
- Claim 34, lines 1-3, change, "any one of claims 1 to 3, 9 to 14, 18, 20 and 21, and 25 to 27" to read, --claim 3--.
- Claim 39, lines 1-2, change, "any one of claims 34 to 38" to read "to claim 38".
- Claim 40, lines 1-3, change, "any one of claims 1 to 3, 9 to 14, 18, 20 and
   21, and 25 to 27" to read, --claim 3--.
- > Claim 60, lines 1-2, change, "any one of claims 43 to 45 and 50 to 59" to read, --claim 45--.
- > Claim 62, line 2, defete, "60 or".
- > Claim 68, line 4, delete, "or 40".
- Authorization for this examiner's amendment was given in a telephone interview with Mr. George R. Pettit on 28 June 2004.

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### **REASONS FOR ALLOWANCE**

> The following is an examiner's statement of reasons for allowance: The present invention is directed towards a method and an apparatus for data compression which segments a data string including at least one unit of data into blocks forming vectors, searches a code book prepared in advance for a code vector similar to a vector extracted from a compression target, and outputs a code corresponding to the code vector. Each independent claim identifies the uniquely distinct feature " for wherein the block forming the vector of the compression target is extracted from the compression target while shifting a spatial position in a horizontal direction at least between blocks close to each other in a vertical direction". The closest prior art, Tsuchiya et al. (US 6,202,048 B1) disclose wherein a synthesis unit decoder selects the code vector corresponding to the index in the synthesis unit from the speech source signal codebook, and shifts the code vector according to the shift number in the synthesis unit; while Normile et al. (US 5,649,030) disclose for an improved method and apparatus for vector quantization to build a codebook for the compression of data, either singularly or in combination, fail to anticipate or render the above underlined limitation obvious.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# **Contact Information**

- Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amir Alavi whose telephone number is (703) 306-5913.
- The Examiner can normally be reached on Monday through Thursday from 8:00 a.m. to 6:30 p.m. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Leo Boudreau, can be reached at (703) 305-4706.

# Any response to this action should be mailed to:

Assistant Commissioner for Patents Washington, D.C. 20231

Or faxed to:

Art Unit: 2621

(703) 872-9306, ("draft" or "informal" communications should be clearly labeled to expedite delivery to Examiner)

**Hand delivered responses** should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the T.C. Customer Service Office whose telephone number is (703) 306-0377.

ANDREW W. JOHNS PRIMARY EXAMINER

AA Group Art Unit 2621 28 June 2004